

M 4.5, 3km WSW of South El Monte, CA

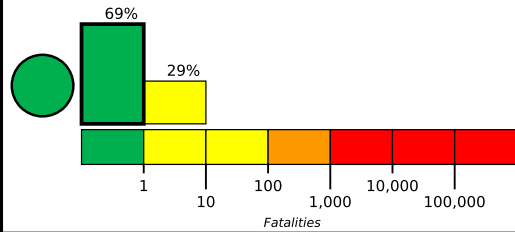
Origin Time: 2020-09-19 06:38:46 UTC (Fri 23:38:46 local)

Location: 34.0380° N 118.0800° W Depth: 16.9 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

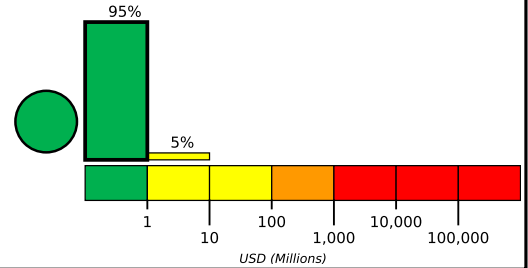
Created: 3 days, 14 hours after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

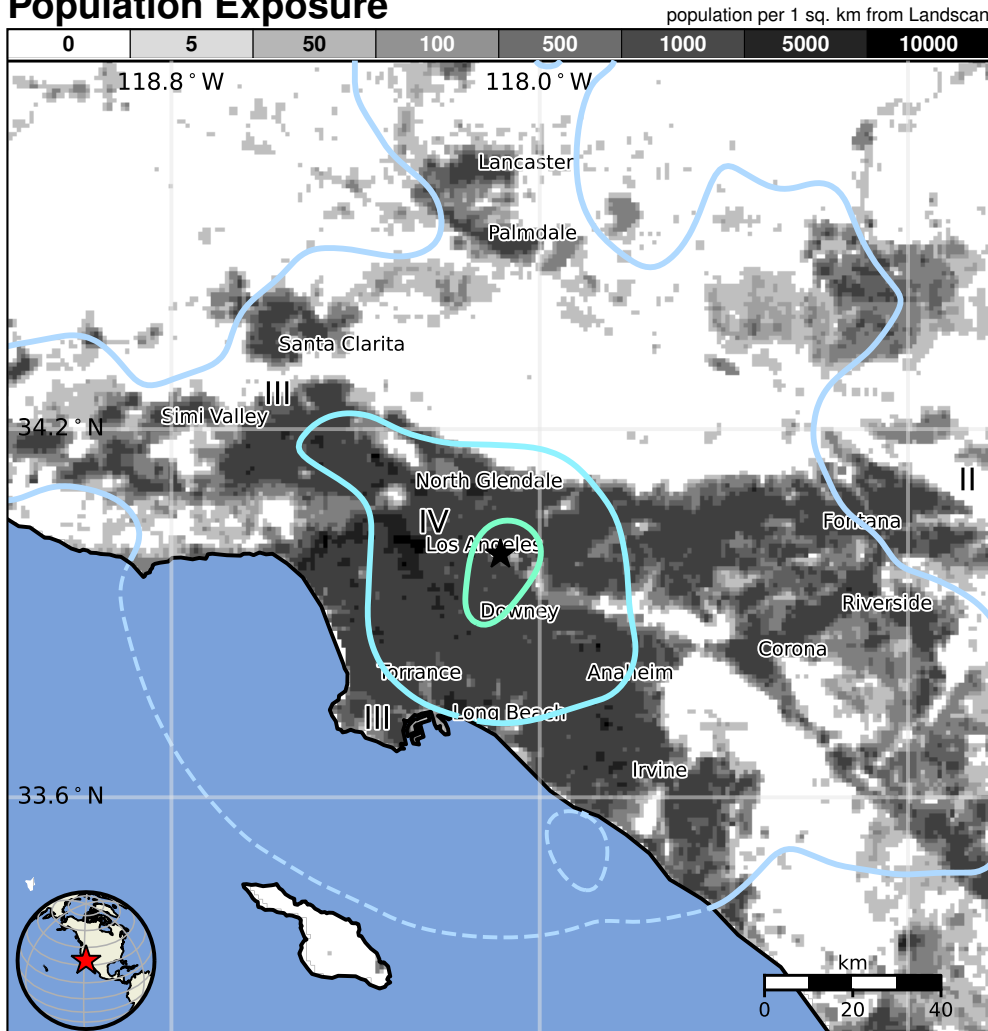


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	10,412k	7,529k	620k	50k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-06-28	23	5.6	VI(1,267k)	1
2003-12-22	324	6.6	VI(8k)	2
1971-02-09	49	6.6	IX(21k)	65

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
VI	South San Gabriel	8k
VI	South El Monte	20k
V	Montebello	62k
V	El Monte	113k
V	Monterey Park	60k
V	Downey	112k
IV	Los Angeles	3,793k
IV	Anaheim	336k
IV	Long Beach	462k
III	Santa Ana	325k
III	Riverside	304k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/ci38695658#pager>

bold cities appear on map.

(k = x1000)

Event ID: ci38695658